10/728869

Refine Search

Your wildcard search against 10000 terms has yielded the results below.
Your result set for the last L# is incomplete.
The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.
Search Results -

Terms	Documents
L10 and (inertial$ with (frame or referenc$))	1

Database: US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Search: L11

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Monday, December 11, 2006 Purge Queries | Printable Copy | Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
L11	L10 and (inertial$ with (frame or referenc$))	1	L11
L10	L9 and L2	1	L10
L9	L6 or L7 or L8	22	L9
	DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
L8	(4088906 | 4155007 | 3920994 | 3825754 | 3359407 | 3193681 | 4114841 | 3714432 | 3379885 | 4263555 | 4119918 | 4056738 | 3457410 | 3940753 | 3737790 | 3793518 | 3020407 | 3834653)![PN]	18	L8
	DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
L7	("20050192719"| "4426591")[PN]	2	L7
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;		

OP=OR

L6	L3 or L4	4	L6
L5	L3 and L4	0	L5
DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR			
L4	("20050192719"| "4426591")[URPN]	2	L4
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR			
L3	(puls$ with celestial$ with radiat$).clm.	2	L3
L2	(puls$ with celestial$ with radiat$) and navigation.clm.	1	L2
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR			
L1	6230098.pn. or 6336073.pn.	2	L1

END OF SEARCH HISTORY

1/3,KWIC/1
DIALOG(R)File 14:Mechanical and Transport Engineer Abstract

0000130609 IP ACCESSION NO: 200212-12-010480
The celestial view from a relativistic starship

STIMETS, R W; SHELDON, E
Lowell, University, Lowell, Mass. [STIMETS, SHELDON]

British Interplanetary Society, Journal (Interstellar Studies), v 34, p 83-99, March 1981
PUBLICATION DATE: 1981

CONFERENCE:
, United Kingdom

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Mechanical & Transportation Engineering Abstracts

, Mar. 1981

ABSTRACT:
... considerations for manned interstellar flight are discussed and evaluated, with particular attention to durational and navigational aspects. The visual appearance of the forward cone, of semiangle 60 deg, in the astronauts...

DESCRIPTORS: Radiation; Doppler effect; Brightness; Singularities; Contraction; Wavelengths; Aberration; Mathematical analysis; Space vehicles; Background radiation ; Displacement; Microwaves; * Celestial mechanics; *Interstellar spacecraft; *Interstellar travel; *Manned space flight; *Relativistic effects; Black body radiation; Hertzsprung-russell ...
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SF ENG
>>>SELECT FILES not supported.

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B411
09dec06 10:49:58 User264717 Session D541.3
$2.68 0.433 DialUnits File14
$2.50 1 Type(s) in Format 3
$2.50 1 Types
$5.18 Estimated cost File14
$0.53 INTERNET
$5.71 Estimated cost this search
$61.56 Estimated total session cost 20.220 DialUnits
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>>> 32 is unauthorized
>>> 108 is unauthorized
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S NAVIGAT? AND (RADIAT? (6W) CELESTIAL?)

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S NAVIGAT? AND (RADIAT? (6W) CELESTIAL?)

Items	File
1	2: INSPEC_1898-2006/Nov W4
4	6: NTIS_1964-2006/Nov W4
2	8: Ei Compendex(R)_1970-2006/Nov W4
2	14: Mechanical and Transport Engineer Abstract_1966-2006/Nov
1	35: Dissertation Abs Online_1861-2006/Nov
1	57: Electronics & Communications Abstracts_1966-2006/Nov
1	68: Solid State & Superconductivity Abstracts_1966-2006/Nov
1	144: Pascal_1973-2006/Nov W2

8 files have one or more items; file list includes 38 files.

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B 2,6,8,14,35,57,68,144
09dec06 10:51:07 User264717 Session D541.4
$2.55 0.963 DialUnits File411
$2.55 Estimated cost File411
$0.53 INTERNET
$3.08 Estimated cost this search
$64.64 Estimated total session cost 21.184 DialUnits

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have changed. See HELP NEWS988 for details.
File 14:Mechanical and Transport Engineer Abstract 1966-2006/Nov
(c) 2006 CSA.
File 35:Dissertation Abs Online 1861-2006/Nov
(c) 2006 ProQuest Info&Learning
File 57:Electronics & Communications Abstracts 1966-2006/Nov
(c) 2006 CSA.
File 68:Solid State & Superconductivity Abstracts 1966-2006/Nov
(c) 2006 CSA.
File 144:Pascal 1973-2006/Nov W2
(c) 2006 INIST/CNRS

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S NAVIGAT? AND (RADIAT? (6W) CELESTIAL?)
149335 NAVIGAT?
1610738 RADIAT?
27658 CELESTIAL?
170 RADIAT?(6W)CELESTIAL?
S1 13 NAVIGAT? AND (RADIAT? (6W) CELESTIAL?)
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RD

S2 9 RD (unique items)
?

T S2/3,KWIC/9

2/3,KWIC/9 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

17204032 PASCAL No.: 05-0275169
Attitude control system of the Wilkinson Microwave Anisotropy Probe
MARKLEY F Landis; ANDREWS Stephen F; O'DONNELL James R JR; WARD David K
NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, United States
Journal: Journal of guidance, control, and dynamics, 2005, 28 (3) 385-397
Language: English

The Wilkinson Microwave Anisotropy Probe mission produces a map of the cosmic microwave background radiation over the entire celestial sphere by executing a fast spin and a slow precession of its spin axis about...

English Descriptors: Attitude control; Control synthesis; Solid dynamic; Cosmic ray; Spacecraft; Inertial navigation ; Measurement sensor; Wheel; Assembly; Orbit; Angular momentum; Anomaly; Reaction force

French Descriptors: Commande attitude; Synthese commande; Dynamique solide; Rayonnement cosmique; Spationef; Navigation inertie; Capteur mesure; Roue; Montage; Orbite; Moment cinetique; Anomalie; Force reaction
?

T S2/3,KWIC/1-9

2/3,KWIC/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

01851172 INSPEC Abstract Number: A76007082
Title: Navigation and guidance in interstellar space
Author(s): Hoag, D.G.; Wrigley, W.
Author Affiliation: Charles Stark Draper Lab. Inc., Cambridge, MA, USA
Journal: Acta Astronautica vol.2, no.5-6 p.513-33
Publication Date: May-June 1975 Country of Publication: UK
CODEN: AASTCF ISSN: 0094-5765

Language: English
Subfile: A

Title: Navigation and guidance in interstellar space
...Abstract: by abundant propulsion, velocity approaching the speed of light, and very long mission times. The navigation and guidance of such a starship will involve an autonomous system sensing received radiation from celestial bodies and utilizing inertial measurements of the motions of the starship. The sensing phenomena which...

... that the present state of the art in theory and implementation of the space-vehicle navigation and guidance is far closer to supporting an interstellar mission than that of many of...
Descriptors: navigation ;
...Identifiers: autonomous system sensing received radiation from celestial bodies...

... navigation ;

2/3,KWIC/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

0523586 NTIS Accession Number: AD-A016 397/2/XAB
AFCRL Infrared Sky Survey. Volume I. Catalog of Observations at 4, 11, and 20 Microns
(Environmental research papers)
Walker, R. G. ; Price, S. D.
Air Force Cambridge Research Labs Hanscom AFB Mass
Corp. Source Codes: 011800
Report No.: AFCRL-TR-75-0373; AFCRL-ERP-522
14 Jul 75 156p
Journal Announcement: GRAI7526
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A08/MF A01

Descriptors: *Intermediate infrared radiation ; Infrared scanning; Celestial navigation ; Stellar map matching; Emission spectra; Brightness; Spatial distribution; Coordinates; Position(Location); Stars; Sky; Surveys; Tables...

2/3,KWIC/3 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS

0403630 NTIS Accession Number: N73-28490/3/XAB
Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
(Patent)
Farthing, W. H. ; Frisbie, H. F.
National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, Md.
Report No.: NASA-CASE-GSC-11444-1; PATENT-3 744 913
Filed patented 10 Jul 73 9p
Document Type: Patent
Journal Announcement: GRAI7322; STAR1119
Misc-Filed 24 Feb. 1972 Supersedes N72-21418 (10 - 12, p 1608).
Government-owned invention available for licensing. Copy of patent available from Commissioner of Patents, Washington, D.C. 20231 $.50.
NTIS Prices: Not available NTIS

Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
... the relative angular position between a spin stabilized spacecraft, probe, or sounding rocket and a radiation emitting celestial body are derived with a detector including four electrodes for deriving indications of the centroid...

2/3,KWIC/4 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS

0380833 NTIS Accession Number: N73-19866/XAB
Ultraviolet Brightness of Celestial Targets for APOLLO 17
Fastie, W. G.
Johns Hopkins Univ., Baltimore, Md. Dept. of Physics.
Report No.: NASA-CR-128834
Dec 72 70p
Journal Announcement: GRAI7312; STAR1110
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC E03/MF A01

Descriptors: *Apollo 17 flight; *Space navigation ; *Stellar radiation

; *Ultraviolet radiation ; Celestial navigation ; Celestial reference systems; Spacecraft guidance

2/3,KWIC/5 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

0001546732 E.I. No: 19630034466
Title: Optical trackers in space
Author: Harmon, W.L.; Shroyer, G.J.; Gilkey, K.J.
Source: Instrument Society of America -- Journal v 9 n 11 Nov 1962 (Instrument Society of America (ISA) Pittsburgh, PA United States), p 70-73
Publication Year: 1962
Language: English

Abstract: Discussion of optical trackers as accurate passive systems for spacecraft navigation systems; optical trackers can use natural radiation from various celestial bodies to give attitude and position data to space navigators .

2/3,KWIC/6 (Item 1 from file: 14)
DIALOG(R)File 14:Mechanical and Transport Engineer Abstract

0000130609 IP ACCESSION NO: 200212-12-010480
The celestial view from a relativistic starship

STIMETS, R W; SHELDON, E
Lowell, University, Lowell, Mass. [STIMETS, SHELDON]

British Interplanetary Society, Journal (Interstellar Studies), v 34, p 83-99, Mar. 1981
PUBLICATION DATE: 1981

CONFERENCE:
, United Kingdom

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Mechanical & Transportation Engineering Abstracts

ABSTRACT:
... considerations for manned interstellar flight are discussed and

evaluated, with particular attention to durational and navigational aspects. The visual appearance of the forward cone, of semiangle 60 deg, in the astronauts...

DESCRIPTORS: Radiation; Doppler effect; Brightness; Singularities; Contraction; Wavelengths; Aberration; Mathematical analysis; Space vehicles; Background radiation ; Displacement; Microwaves; * Celestial mechanics; *Interstellar spacecraft; *Interstellar travel; *Manned space flight; *Relativistic effects; Black body radiation; Hertzsprung-russell ...

2/3,KWIC/7 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

02103188 ORDER NO: AADAA-I3183563

The use of variable celestial X-ray sources for spacecraft navigation

Author: Sheikh, Suneel Ismail
Degree: Ph.D.
Year: 2005
Corporate Source/Institution: University of Maryland, College Park (0117
)
Source: VOLUME 66/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 3817. 630 PAGES
ISBN: 0-542-24965-0

The use of variable celestial X-ray sources for spacecraft navigation

Accurate control and guidance of spacecraft require continuous high performance three-dimensional navigation solutions. Celestial sources that produce fixed radiation have demonstrated benefits for determining location near Earth and vehicle attitude. Many interplanetary navigation solutions have also relied on Earth-based radio telescope observations and substantial ground processing.

This dissertation investigates the use of variable celestial sources to compute an accurate navigation solution for autonomous spacecraft operation and presents new methodologies for determining time, attitude, position, and...

...ray emitting variable sources has been compiled to identify those that exhibit characteristics conducive to navigation . Many of these sources emit periodic signals that are stable and predictable, and all are...

...from Earth-orbiting X-ray astrophysics missions are also presented.

Results indicate that the pulsed radiation from variable celestial

X-ray sources presents a significant opportunity for developing a new class of navigation system for autonomous spacecraft operation.

2/3,KWIC/8 (Item 1 from file: 57)
DIALOG(R)File 57:Electronics & Communications Abstracts

0000271820 IP ACCESSION NO: 200312-32-1352

UMBRAS - A matched occulter and telescope for imaging extrasolar planets

Schultz, Alfred B; Jordan, Ian J; Kochte, Mark; Fraquelli, Dorothy A; Bruhweiler, Fred; Hollis, Jan M; Carpenter, Kenneth G; Lyon, Richard G; DiSanti, Mike A; Miskey, Cherie L
Computer Sciences Corp.

SPIE Proceedings Series, v SPIE-4860, p 54-61
PUBLICATION DATE: 2003

PUBLISHER: Society of Photo-Optical Instrumentation Engineers, 1000 20th Street, P.O. Box 10, Bellingham, WA, 98225
COUNTRY OF PUBLICATION: USA
PUBLISHER URL: http://www.spie.org
PUBLISHER EMAIL: spie@spie.org

CONFERENCE:
High-Contrast Imaging for Exo-Planet Detection, Waikoloa, HI, 23-26 Aug. 2002
DOCUMENT TYPE: Conference Paper; Journal Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH
ISSN: 1017-2653
REPORT NO: SPIE-4860
FILE SEGMENT: Electronics & Communications Abstracts

ABSTRACT:
... would be semi-autonomous, with its own propulsion systems, internal power (solar cells), communications, and navigation capability. Spacecraft rendezvous and formation flying would be achieved with the aid of telescope imaging, RF or laser ranging, celestial navigation inputs, and formation control algorithms. (Author)

DESCRIPTORS: Telescopes; Space; Umbras; Planets; Detection; Spacecraft; Stars; Light (visible radiation); Space missions; Extrasolar planets; Systems; Celestial navigation ; Images; Polishing; Stellar systems; Navigation ; Solar system; Sky; Communication; Power transmission

2/3,KWIC/9 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

17204032 PASCAL No.: 05-0275169
Attitude control system of the Wilkinson Microwave Anisotropy Probe
MARKLEY F Landis; ANDREWS Stephen F; O'DONNELL James R JR; WARD David K
NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, United States
Journal: Journal of guidance, control, and dynamics, 2005, 28 (3) 385-397
Language: English

The Wilkinson Microwave Anisotropy Probe mission produces a map of the cosmic microwave background radiation over the entire celestial sphere by executing a fast spin and a slow precession of its spin axis about...

English Descriptors: Attitude control; Control synthesis; Solid dynamic; Cosmic ray; Spacecraft; Inertial navigation ; Measurement sensor; Wheel; Assembly; Orbit; Angular momentum; Anomaly; Reaction force

French Descriptors: Commande attitude; Synthese commande; Dynamique solide; Rayonnement cosmique; Spationef; Navigation inertie; Capteur mesure; Roue; Montage; Orbite; Moment cinetique; Anomalie; Force reaction
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S NAVIGAT? AND (RADIAT? (6N) CELESTIAL?)
149335 NAVIGAT?
1610738 RADIAT?
27658 CELESTIAL?
369 RADIAT?(6N)CELESTIAL?
S3 14 NAVIGAT? AND (RADIAT? (6N) CELESTIAL?)
?

RD
S4 10 RD (unique items)
?

T S4/3,KWIC/1-10

4/3,KWIC/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

01851172 INSPEC Abstract Number: A76007082
Title: Navigation and guidance in interstellar space
Author(s): Hoag, D.G.; Wrigley, W.
Author Affiliation: Charles Stark Draper Lab. Inc., Cambridge, MA, USA
Journal: Acta Astronautica vol.2, no.5-6 p.513-33
Publication Date: May-June 1975 Country of Publication: UK
CODEN: AASTCF ISSN: 0094-5765
Language: English
Subfile: A

Title: Navigation and guidance in interstellar space
...Abstract: by abundant propulsion, velocity approaching the speed of light, and very long mission times. The navigation and guidance of such a starship will involve an autonomous system sensing received radiation from celestial bodies and utilizing inertial measurements of the motions of the starship. The sensing phenomena which...

... that the present state of the art in theory and implementation of the space-vehicle navigation and guidance is far closer to supporting an interstellar mission than that of many of...
Descriptors: navigation ;
...Identifiers: autonomous system sensing received radiation from celestial bodies....

... navigation ;

4/3,KWIC/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

0523586 NTIS Accession Number: AD-A016 397/2/XAB
AFCRL Infrared Sky Survey. Volume I. Catalog of Observations at 4, 11, and 20 Microns
(Environmental research papers)
Walker, R. G. ; Price, S. D.
Air Force Cambridge Research Labs Hanscom AFB Mass
Corp. Source Codes: 011800
Report No.: AFCRL-TR-75-0373; AFCRL-ERP-522
14 Jul 75 156p
Journal Announcement: GRAI7526
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,

Springfield, VA, 22161, USA.
NTIS Prices: PC A08/MF A01

Descriptors: *Intermediate infrared radiation ; Infrared scanning; Celestial navigation ; Stellar map matching; Emission spectra; Brightness; Spatial distribution; Coordinates; Position(Location); Stars; Sky; Surveys; Tables...

4/3,KWIC/3 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS

0403630 NTIS Accession Number: N73-28490/3/XAB
Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
(Patent)
Farthing, W. H. ; Frisbie, H. F.
National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, Md.
Report No.: NASA-CASE-GSC-11444-1; PATENT-3 744 913
Filed patented 10 Jul 73 9p
Document Type: Patent
Journal Announcement: GRAI7322; STAR1119
Misc-Filed 24 Feb. 1972 Supersedes N72-21418 (10 - 12, p 1608).
Government-owned invention available for licensing. Copy of patent available from Commissioner of Patents, Washington, D.C. 20231 $.50.
NTIS Prices: Not available NTIS

Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
... the relative angular position between a spin stabilized spacecraft, probe, or sounding rocket and a radiation emitting celestial body are derived with a detector including four electrodes for deriving indications of the centroid...
Descriptors: *Angular correlation; * Celestial bodies; *Spacecraft position indicators; Patents; Radiation detectors; Semiconductor devices; Signal processing; Space orientation; Spin stabilization

4/3,KWIC/4 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS

0380833 NTIS Accession Number: N73-19866/XAB
Ultraviolet Brightness of Celestial Targets for APOLLO 17

Fastie, W. G.
Johns Hopkins Univ., Baltimore, Md. Dept. of Physics.
Report No.: NASA-CR-128834
Dec 72 70p
Journal Announcement: GRAI7312; STAR1110
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC E03/MF A01

Descriptors: *Apollo 17 flight; *Space navigation ; *Stellar radiation ; *Ultraviolet radiation ; Celestial navigation ; Celestial reference systems; Spacecraft guidance

4/3,KWIC/5 (Item 4 from file: 6)
DIALOG(R)File 6:NTIS

0172943 NTIS Accession Number: AD-683 143/XAB
Applications of Infrared Techniques in Modern Aviation
Shen Kung-hsun
Foreign Technology Div Wright-Patterson AFB Ohio
Corp. Source Codes: 141600
Report No.: FTD-HT-23-473-68
11 Sep 68 12p
Document Type: Translation
Journal Announcement: USGRDR6909
Edited trans. of Hang K'ung Chih Shih (Mainland China), n7 p10-12 1960.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A02/MF A01

...Descriptors: Homing devices; Infrared equipment; Identification systems; Infrared detectors; Infrared image tubes; Infrared tracking; Heat homing; Celestial guidance; Infrared radiation ; Infrared telescopes; China

4/3,KWIC/6 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

0001546732 E.I. No: 19630034466
Title: Optical trackers in space
Author: Harmon, W.L.; Shroyer, G.J.; Gilkey, K.J.
Source: Instrument Society of America -- Journal v 9 n 11 Nov 1962 (Instrument Society of America (ISA) Pittsburgh, PA United States), p 70-73
Publication Year: 1962
Language: English

Abstract: Discussion of optical trackers as accurate passive systems for spacecraft navigation systems; optical trackers can use natural radiation from various celestial bodies to give attitude and position data to space navigators .

4/3,KWIC/7 (Item 1 from file: 14)
DIALOG(R)File 14:Mechanical and Transport Engineer Abstract

0000130609 IP ACCESSION NO: 200212-12-010480
The celestial view from a relativistic starship

STIMETS, R W; SHELDON, E
Lowell, University, Lowell, Mass. [STIMETS, SHELDON]

British Interplanetary Society, Journal (Interstellar Studies), v 34, p 83-99, Mar. 1981
PUBLICATION DATE: 1981

CONFERENCE:
, United Kingdom

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Mechanical & Transportation Engineering Abstracts

ABSTRACT:
... considerations for manned interstellar flight are discussed and evaluated, with particular attention to durational and navigational aspects. The visual appearance of the forward cone, of semiangle 60 deg, in the astronauts...

DESCRIPTORS: Radiation; Doppler effect; Brightness; Singularities; Contraction; Wavelengths; Aberration; Mathematical analysis; Space vehicles; Background radiation ; Displacement; Microwaves; * Celestial mechanics; *Interstellar spacecraft; *Interstellar travel; *Manned space

flight; *Relativistic effects; Black body radiation; Hertzsprung-russell
...

4/3,KWIC/8 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

02103188 ORDER NO: AADAA-I3183563
The use of variable celestial X-ray sources for spacecraft navigation
Author: Sheikh, Suneel Ismail
Degree: Ph.D.
Year: 2005
Corporate Source/Institution: University of Maryland, College Park (0117
)
Source: VOLUME 66/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 3817. 630 PAGES
ISBN: 0-542-24965-0

The use of variable celestial X-ray sources for spacecraft navigation

Accurate control and guidance of spacecraft require continuous high performance three-dimensional navigation solutions. Celestial sources that produce fixed radiation have demonstrated benefits for determining location near Earth and vehicle attitude. Many interplanetary navigation solutions have also relied on Earth-based radio telescope observations and substantial ground processing.

This dissertation investigates the use of variable celestial sources to compute an accurate navigation solution for autonomous spacecraft operation and presents new methodologies for determining time, attitude, position, and...

...ray emitting variable sources has been compiled to identify those that exhibit characteristics conducive to navigation . Many of these sources emit periodic signals that are stable and predictable, and all are...

...from Earth-orbiting X-ray astrophysics missions are also presented.

Results indicate that the pulsed radiation from variable celestial X-ray sources presents a significant opportunity for developing a new class of navigation system for autonomous spacecraft operation.

4/3,KWIC/9 (Item 1 from file: 57)
DIALOG(R)File 57:Electronics & Communications Abstracts

0000271820 IP ACCESSION NO: 200312-32-1352

UMBRAS - A matched occulter and telescope for imaging extrasolar planets

Schultz, Alfred B; Jordan, Ian J; Kochte, Mark; Fraquelli, Dorothy A; Bruhweiler, Fred; Hollis, Jan M; Carpenter, Kenneth G; Lyon, Richard G; DiSanti, Mike A; Miskey, Cherie L
Computer Sciences Corp.

SPIE Proceedings Series, v SPIE-4860, p 54-61
PUBLICATION DATE: 2003

PUBLISHER: Society of Photo-Optical Instrumentation Engineers, 1000 20th Street, P.O. Box 10, Bellingham, WA, 98225
COUNTRY OF PUBLICATION: USA
PUBLISHER URL: http://www.spie.org
PUBLISHER EMAIL: spie@spie.org

CONFERENCE:
High-Contrast Imaging for Exo-Planet Detection, Waikoloa, HI, 23-26 Aug. 2002
DOCUMENT TYPE: Conference Paper; Journal Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH
ISSN: 1017-2653
REPORT NO: SPIE-4860
FILE SEGMENT: Electronics & Communications Abstracts

ABSTRACT:
... would be semi-autonomous, with its own propulsion systems, internal power (solar cells), communications, and navigation capability. Spacecraft rendezvous and formation flying would be achieved with the aid of telescope imaging, RF or laser ranging, celestial navigation inputs, and formation control algorithms. (Author)

DESCRIPTORS: Telescopes; Space; Umbras; Planets; Detection; Spacecraft; Stars; Light (visible radiation); Space missions; Extrasolar planets; Systems; Celestial navigation ; Images; Polishing; Stellar systems; Navigation ; Solar system; Sky; Communication; Power transmission

4/3,KWIC/10 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

17204032 PASCAL No.: 05-0275169

Attitude control system of the Wilkinson Microwave Anisotropy Probe

MARKLEY F Landis; ANDREWS Stephen F; O'DONNELL James R JR; WARD David K
NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, United States
Journal: Journal of guidance, control, and dynamics, 2005, 28 (3) 385-397
Language: English

The Wilkinson Microwave Anisotropy Probe mission produces a map of the cosmic microwave background radiation over the entire celestial sphere by executing a fast spin and a slow precession of its spin axis about...

English Descriptors: Attitude control; Control synthesis; Solid dynamic; Cosmic ray; Spacecraft; Inertial navigation ; Measurement sensor; Wheel; Assembly; Orbit; Angular momentum; Anomaly; Reaction force

French Descriptors: Commande attitude; Synthese commande; Dynamique solide; Rayonnement cosmique; Spationef; Navigation inertie; Capteur mesure; Roue; Montage; Orbite; Moment cinetique; Anomalie; Force reaction
?

```
      $4.50  2 Types
    $5.35  Estimated cost File57
      $0.49   0.063 DialUnits File68
    $0.49  Estimated cost File68
      $1.22   0.271 DialUnits File144
        $4.95  3 Type(s) in Format  3
      $4.95  3 Types
    $6.17  Estimated cost File144
      OneSearch, 8 files,  1.508 DialUnits FileOS
    $2.66  INTERNET
   $51.55  Estimated cost this search
  $116.19  Estimated total session cost  22.692 DialUnits

SYSTEM:OS  - DIALOG OneSearch
  File   6:NTIS 1964-2006/Nov W4
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 *File   8: The file has been reprocessed and accession numbers
have changed. See HELP NEWS988 for details.
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  File  63:Transport Res(TRIS) 1970-2006/Oct
      (c) fmt only 2006 Dialog
  File  65:Inside Conferences 1993-2006/Dec 08
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  File  81:MIRA - Motor Industry Research 2001-2006/Sep
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      (c)2006 Japan Science and Tech Corp(JST)
  File  95:TEME-Technology & Management 1989-2006/Dec W1
      (c) 2006 FIZ TECHNIK
  File 266:FEDRIP 2006/Aug
      Comp & dist by NTIS, Intl Copyright All Rights Res

    Set  Items  Description
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S NAVIGAT? AND (RADIAT? (6N) CELESTIAL?)
        114592  NAVIGAT?
        897194  RADIAT?
         17850  CELESTIAL?
           132  RADIAT?(6N)CELESTIAL?
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S1 7 NAVIGAT? AND (RADIAT? (6N) CELESTIAL?)
?

RD
S2 6 RD (unique items)
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T S2/3,KWIC/1-6

2/3,KWIC/1 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

0523586 NTIS Accession Number: AD-A016 397/2/XAB
AFCRL Infrared Sky Survey. Volume I. Catalog of Observations at 4, 11, and 20 Microns
(Environmental research papers)
Walker, R. G. ; Price, S. D.
Air Force Cambridge Research Labs Hanscom AFB Mass
Corp. Source Codes: 011800
Report No.: AFCRL-TR-75-0373; AFCRL-ERP-522
14 Jul 75 156p
Journal Announcement: GRAI7526
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A08/MF A01

Descriptors: *Intermediate infrared radiation ; Infrared scanning; Celestial navigation ; Stellar map matching; Emission spectra; Brightness; Spatial distribution; Coordinates; Position(Location); Stars; Sky; Surveys; Tables...

RF4

2/3,KWIC/2 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS

0403630 NTIS Accession Number: N73-28490/3/XAB
Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
(Patent)
Farthing, W. H. ; Frisbie, H. F.
National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, Md.

Report No.: NASA-CASE-GSC-11444-1; PATENT-3 744 913
Filed patented 10 Jul 73 9p
Document Type: Patent
Journal Announcement: GRAI7322; STAR1119
Misc-Filed 24 Feb. 1972 Supersedes N72-21418 (10 - 12, p 1608).
Government-owned invention available for licensing. Copy of patent available from Commissioner of Patents, Washington, D.C. 20231 $.50.
NTIS Prices: Not available NTIS

Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body

... the relative angular position between a spin stabilized spacecraft, probe, or sounding rocket and a radiation emitting celestial body are derived with a detector including four electrodes for deriving indications of the centroid...

Descriptors: *Angular correlation; * Celestial bodies; *Spacecraft position indicators; Patents; Radiation detectors; Semiconductor devices; Signal processing; Space orientation; Spin stabilization

2/3,KWIC/3 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS

0380833 NTIS Accession Number: N73-19866/XAB
Ultraviolet Brightness of Celestial Targets for APOLLO 17
Fastie, W. G.
Johns Hopkins Univ., Baltimore, Md. Dept. of Physics.
Report No.: NASA-CR-128834
Dec 72 70p
Journal Announcement: GRAI7312; STAR1110
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC E03/MF A01

Descriptors: *Apollo 17 flight; *Space navigation ; *Stellar radiation ; *Ultraviolet radiation ; Celestial navigation ; Celestial reference systems; Spacecraft guidance

2/3,KWIC/4 (Item 4 from file: 6)
DIALOG(R)File 6:NTIS

0172943 NTIS Accession Number: AD-683 143/XAB
Applications of Infrared Techniques in Modern Aviation
Shen Kung-hsun
Foreign Technology Div Wright-Patterson AFB Ohio
Corp. Source Codes: 141600
Report No.: FTD-HT-23-473-68
11 Sep 68 12p
Document Type: Translation
Journal Announcement: USGRDR6909
Edited trans. of Hang K'ung Chih Shih (Mainland China), n7 p10-12 1960.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A02/MF A01

...Descriptors: Homing devices; Infrared equipment; Identification systems; Infrared detectors; Infrared image tubes; Infrared tracking; Heat homing; Celestial guidance; Infrared radiation ; Infrared telescopes; China

2/3,KWIC/5 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

03477903 E.I. Monthly No: EI7509062428 E.I. Yearly No: EI75071799
Title: NAVIGATION AND GUIDANCE IN INTERSTELLAR SPACE.
Author: Hoag, David G.; Wrigley, Walter
Corporate Source: Charles Stark Draper Lab Inc, Cambridge, Mass
Source: Acta Astronautica v 2 n 5-6 May-Jun 1975 p 513-533
Publication Year: 1975
CODEN: AASTCF ISSN: 0094-5765
Language: ENGLISH

Title: NAVIGATION AND GUIDANCE IN INTERSTELLAR SPACE.
Abstract: It is shown that realistic interstellar missions will require an autonomous navigation and guidance system which must operate over many years required for the mission, must be...

...with the relativistic effects of very high speed. Such a system using inertial sensing and radiation sensing from celestial bodies will be not unlike the on-board system which performed the same functions for...
...Descriptors: Navigation Aids; SPACE FLIGHT...

...Interplanetary Flight; NAVIGATION

2/3,KWIC/6 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

0001546732 E.I. No: 19630034466
Title: Optical trackers in space
Author: Harmon, W.L.; Shroyer, G.J.; Gilkey, K.J.
Source: Instrument Society of America -- Journal v 9 n 11 Nov 1962 (Instrument Society of America (ISA) Pittsburgh, PA United States), p 70-73
Publication Year: 1962
Language: English

Abstract: Discussion of optical trackers as accurate passive systems for spacecraft navigation systems; optical trackers can use natural radiation from various celestial bodies to give attitude and position data to space navigators .
?

Set Items Description
S1 7 NAVIGAT? AND (RADIAT? (6N) CELESTIAL?)
S2 6 RD (unique items)
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File 36:MetalBase 1965-20061207
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File 63:Transport Res(TRIS) 1970-2006/Oct
(c) fmt only 2006 Dialog
File 65:Inside Conferences 1993-2006/Dec 08
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File 81:MIRA - Motor Industry Research 2001-2006/Sep
(c) 2006 MIRA Ltd.
File 94:JICST-EPlus 1985-2006/Aug W3
(c)2006 Japan Science and Tech Corp(JST)
File 95:TEME-Technology & Management 1989-2006/Dec W1
(c) 2006 FIZ TECHNIK
File 266:FEDRIP 2006/Aug

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Recent Search Queries

#1 ((inertial* <near/4> referenc*) <and> ((puls* <near/3> radiation*) <or> (celestial* <near/3> radiation*)) <and> time* <in> pdfdate) <and> (pyr >= 1950 <and> pyr <= 2003)

Results: 5

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Modify Search

((inertial* <near/4> referenc*) <and> ((puls* <near/3> radiation*) <or> (celestial*

Search »

Check to search only within this results set

Display Format: Citation Citation & Abstract

view selected items

Select All Deselect All

1. **Millisecond pulsars: nature's most stable clocks**
   Taylor, J.H., Jr.;

Proceedings of the IEEE
Volume 79, Issue 7, July 1991 Page(s):1054 - 1062
Digital Object Identifier 10.1109/5.84982

Summary: The author describes the role pulsars might play in time and frequency technology. Millisecond pulsars are rapidly rotating neutron stars: some 20 km in diameter, 1.4 times as massive as the Sun, and spinning as fast as several thousand radians per s.....

AbstractPlus | Full Text: PDF(768 KB) IEEE JNL
Rights and Permissions

2. Back cover

Quantum Electronics, IEEE Journal of
Volume 15, Issue 12, Dec 1979 Page(s):0 - 0

Summary: Not available.....

AbstractPlus | Full Text: PDF(5904 KB) IEEE JNL
Rights and Permissions

3. Subject Index [1951-1971]

Aerospace and Electronic Systems, IEEE Transactions on
Volume 36, Issue 3, Part 2, July 2000 Page(s):45 - 121
Digital Object Identifier 10.1109/TAES.2000.869526

Summary: Not available.....

AbstractPlus | Full Text: PDF(10988 KB) IEEE JNL
Rights and Permissions

4. A comparison of ocean topography derived from the Shuttle Laser Altimeter-01 and TOPEX/POSEIDON

Behn, M.D.; Zuber, M.T.;
Geoscience and Remote Sensing, IEEE Transactions on
Volume 38, Issue 3, May 2000 Page(s):1425 - 1438
Digital Object Identifier 10.1109/36.843037

Summary: To assess the utility of laser altimetry for studies in dynamical oceanography, the authors present a comparison of the Shuttle Laser Altimeter (SLA)-01 and the TOPEX/POSEIDON (T/P) radar altimeter on global and regional scales. They compare all ~1.1.....

AbstractPlus | References | Full Text: PDF(2916 KB) IEEE JNL
Rights and Permissions

5. Applications of highly stable oscillators to scientific measurements

Vessot, R.F.C.;

Proceedings of the IEEE
Volume 79, Issue 7, July 1991 Page(s):1040 - 1053
Digital Object Identifier 10.1109/5.84981

Summary: The author describes several scientific experiments requiring highly stable oscillators. It is clear from this analysis that technology has advanced to the point where concepts of relativity theory can be tested in a number of ways. He shows sigma ve.....

10/728,869 filed 12/08/2003

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One or more terms were invalid in 25 files.

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>>>File 14 processing for PD= : PD=031208
>>>File 14: started at PD=APR.0000 stopped at PD=19830300
1 14: Mechanical and Transport Engineer
Abstract_1966-2006/Nov

1 file has one or more items; file list includes 38 files.
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B 14

File 14:Mechanical and Transport Engineer Abstract 1966-2006/Nov
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S NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) CELESTIAL?)
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15677 NAVIGAT?
46558 PD<=031208
24231 RADIAT?
1347 CELESTIAL?
20 RADIAT?(6W)CELESTIAL?
S1 1 NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) CELESTIAL?)
?

T S1/3,KWIC/1

1/3,KWIC/1
DIALOG(R)File 14:Mechanical and Transport Engineer Abstract

0000130609 IP ACCESSION NO: 200212-12-010480
The celestial view from a relativistic starship

STIMETS, R W; SHELDON, E
Lowell, University, Lowell, Mass. [STIMETS, SHELDON]

British Interplanetary Society, Journal (Interstellar Studies), v 34, p 83-99, Mar. 1981
PUBLICATION DATE: 1981

CONFERENCE:
, United Kingdom

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Mechanical & Transportation Engineering Abstracts

, Mar. 1981

ABSTRACT:
... considerations for manned interstellar flight are discussed and evaluated, with particular attention to durational and navigational aspects. The visual appearance of the forward cone, of semiangle 60 deg, in

the astronauts...

DESCRIPTORS: Radiation; Doppler effect; Brightness; Singularities; Contraction; Wavelengths; Aberration; Mathematical analysis; Space vehicles; Background radiation ; Displacement; Microwaves; * Celestial mechanics; *Interstellar spacecraft; *Interstellar travel; *Manned space flight; *Relativistic effects; Black body radiation; Hertzsprung-russell ...

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Items	File
1	2: INSPEC_1898-2006/Nov W4
4	6: NTIS_1964-2006/Nov W4
2	8: Ei Compendex(R)_1970-2006/Nov W4
2	14: Mechanical and Transport Engineer Abstract_1966-2006/Nov
1	35: Dissertation Abs Online_1861-2006/Nov
1	57: Electronics & Communications Abstracts_1966-2006/Nov
1	68: Solid State & Superconductivity Abstracts_1966-2006/Nov
1	144: Pascal_1973-2006/Nov W2

8 files have one or more items; file list includes 38 files.

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B 2,6,8,14,35,57,68,144
09dec06 10:51:07 User264717 Session D541.4
$2.55 0.963 DialUnits File411
$2.55 Estimated cost File411
$0.53 INTERNET
$3.08 Estimated cost this search
$64.64 Estimated total session cost 21.184 DialUnits

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***File 8: The file has been reprocessed and accession numbers**
have changed. See HELP NEWS988 for details.
File 14:Mechanical and Transport Engineer Abstract 1966-2006/Nov
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File 57:Electronics & Communications Abstracts 1966-2006/Nov
(c) 2006 CSA.
File 68:Solid State & Superconductivity Abstracts 1966-2006/Nov
(c) 2006 CSA.
File 144:Pascal 1973-2006/Nov W2
(c) 2006 INIST/CNRS

S NAVIGAT? AND (RADIAT? (6W) CELESTIAL?)
149335 NAVIGAT?
1610738 RADIAT?
27658 CELESTIAL?
170 RADIAT?(6W)CELESTIAL?
S1 13 NAVIGAT? AND (RADIAT? (6W) CELESTIAL?)
?

RD
S2 9 RD (unique items)
?

T S2/3,KWIC/9

2/3,KWIC/9 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

17204032 PASCAL No.: 05-0275169
Attitude control system of the Wilkinson Microwave Anisotropy Probe
MARKLEY F Landis; ANDREWS Stephen F; O'DONNELL James R JR; WARD David K
NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, United States
Journal: Journal of guidance, control, and dynamics, 2005, 28 (3) 385-397
Language: English

The Wilkinson Microwave Anisotropy Probe mission produces a map of the cosmic microwave background radiation over the entire celestial sphere by executing a fast spin and a slow precession of its spin axis about...

English Descriptors: Attitude control; Control synthesis; Solid dynamic; Cosmic ray; Spacecraft; Inertial navigation ; Measurement sensor; Wheel; Assembly; Orbit; Angular momentum; Anomaly; Reaction force

French Descriptors: Commande attitude; Synthese commande; Dynamique solide; Rayonnement cosmique; Spationef; Navigation inertie; Capteur mesure; Roue; Montage; Orbite; Moment cinetique; Anomalie; Force reaction
?

T S2/3,KWIC/1-9

2/3,KWIC/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

01851172 INSPEC Abstract Number: A76007082
Title: Navigation and guidance in interstellar space
Author(s): Hoag, D.G.; Wrigley, W.
Author Affiliation: Charles Stark Draper Lab. Inc., Cambridge, MA, USA
Journal: Acta Astronautica vol.2, no.5-6 p.513-33
Publication Date: May-June 1975 Country of Publication: UK
CODEN: AASTCF ISSN: 0094-5765
Language: English
Subfile: A

Title: Navigation and guidance in interstellar space

...Abstract: by abundant propulsion, velocity approaching the speed of light, and very long mission times. The navigation and guidance of such a starship will involve an autonomous system sensing received radiation from celestial bodies and utilizing inertial measurements of the motions of the starship. The sensing phenomena which...

... that the present state of the art in theory and implementation of the space-vehicle navigation and guidance is far closer to supporting an interstellar mission than that of many of...
Descriptors: navigation ;
...Identifiers: autonomous system sensing received radiation from celestial bodies...

... navigation ;

2/3,KWIC/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

0523586 NTIS Accession Number: AD-A016 397/2/XAB
AFCRL Infrared Sky Survey. Volume I. Catalog of Observations at 4, 11, and 20 Microns
(Environmental research papers)
Walker, R. G. ; Price, S. D.
Air Force Cambridge Research Labs Hanscom AFB Mass
Corp. Source Codes: 011800
Report No.: AFCRL-TR-75-0373; AFCRL-ERP-522
14 Jul 75 156p
Journal Announcement: GRAI7526
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A08/MF A01

Descriptors: *Intermediate infrared radiation ; Infrared scanning; Celestial navigation ; Stellar map matching; Emission spectra; Brightness; Spatial distribution; Coordinates; Position(Location); Stars; Sky; Surveys; Tables...

2/3,KWIC/3 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS

0403630 NTIS Accession Number: N73-28490/3/XAB
Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
(Patent)
Farthing, W. H. ; Frisbie, H. F.
National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, Md.
Report No.: NASA-CASE-GSC-11444-1; PATENT-3 744 913
Filed patented 10 Jul 73 9p
Document Type: Patent
Journal Announcement: GRAI7322; STAR1119
Misc-Filed 24 Feb. 1972 Supersedes N72-21418 (10 - 12, p 1608).
Government-owned invention available for licensing. Copy of patent available from Commissioner of Patents, Washington, D.C. 20231 $.50.
NTIS Prices: Not available NTIS

Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
... the relative angular position between a spin stabilized spacecraft, probe, or sounding rocket and a radiation emitting celestial body are derived with a detector including four electrodes for deriving indications of the centroid...

2/3,KWIC/4 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS

0380833 NTIS Accession Number: N73-19866/XAB
Ultraviolet Brightness of Celestial Targets for APOLLO 17
Fastie, W. G.
Johns Hopkins Univ., Baltimore, Md. Dept. of Physics.
Report No.: NASA-CR-128834
Dec 72 70p
Journal Announcement: GRAI7312; STAR1110
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC E03/MF A01

Descriptors: *Apollo 17 flight; *Space navigation ; *Stellar radiation ; *Ultraviolet radiation ; Celestial navigation ; Celestial reference systems; Spacecraft guidance

2/3,KWIC/5 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

0001546732 E.I. No: 19630034466
Title: Optical trackers in space
Author: Harmon, W.L.; Shroyer, G.J.; Gilkey, K.J.
Source: Instrument Society of America -- Journal v 9 n 11 Nov 1962 (Instrument Society of America (ISA) Pittsburgh, PA United States), p 70-73
Publication Year: 1962
Language: English

Abstract: Discussion of optical trackers as accurate passive systems for spacecraft navigation systems; optical trackers can use natural radiation from various celestial bodies to give attitude and position data to space navigators .

2/3,KWIC/6 (Item 1 from file: 14)
DIALOG(R)File 14:Mechanical and Transport Engineer Abstract

0000130609 IP ACCESSION NO: 200212-12-010480
The celestial view from a relativistic starship

STIMETS, R W; SHELDON, E
Lowell, University, Lowell, Mass. [STIMETS, SHELDON]

British Interplanetary Society, Journal (Interstellar Studies), v 34, p 83-99, Mar. 1981
PUBLICATION DATE: 1981

CONFERENCE:
, United Kingdom

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Mechanical & Transportation Engineering Abstracts

ABSTRACT:
... considerations for manned interstellar flight are discussed and evaluated, with particular attention to durational and navigational aspects. The visual appearance of the forward cone, of semiangle 60 deg, in the astronauts...

DESCRIPTORS: Radiation; Doppler effect; Brightness; Singularities; Contraction; Wavelengths; Aberration; Mathematical analysis; Space vehicles; Background radiation ; Displacement; Microwaves; * Celestial mechanics; *Interstellar spacecraft; *Interstellar travel; *Manned space flight; *Relativistic effects; Black body radiation; Hertzsprung-russell ...

2/3,KWIC/7 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

02103188 ORDER NO: AADAA-I3183563
The use of variable celestial X-ray sources for spacecraft navigation
Author: Sheikh, Suneel Ismail
Degree: Ph.D.
Year: 2005
Corporate Source/Institution: University of Maryland, College Park (0117
)
Source: VOLUME 66/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 3817. 630 PAGES
ISBN: 0-542-24965-0

The use of variable celestial X-ray sources for spacecraft navigation

Accurate control and guidance of spacecraft require continuous high performance three-dimensional navigation solutions. Celestial sources that produce fixed radiation have demonstrated benefits for determining location near Earth and vehicle attitude. Many interplanetary navigation solutions have also relied on Earth-based radio telescope observations and substantial ground processing.

This dissertation investigates the use of variable celestial sources to compute an accurate navigation solution for autonomous spacecraft operation and presents new methodologies for determining time, attitude, position, and...

...ray emitting variable sources has been compiled to identify those that exhibit characteristics conducive to navigation . Many of these sources emit periodic signals that are stable and predictable, and all are...

...from Earth-orbiting X-ray astrophysics missions are also presented.

Results indicate that the pulsed radiation from variable celestial X-ray sources presents a significant opportunity for developing a new class of navigation system for autonomous spacecraft operation.

2/3,KWIC/8 (Item 1 from file: 57)
DIALOG(R)File 57:Electronics & Communications Abstracts

0000271820 IP ACCESSION NO: 200312-32-1352
UMBRAS - A matched occulter and telescope for imaging extrasolar planets

Schultz, Alfred B; Jordan, Ian J; Kochte, Mark; Fraquelli, Dorothy A; Bruhweiler, Fred; Hollis, Jan M; Carpenter, Kenneth G; Lyon, Richard G; DiSanti, Mike A; Miskey, Cherie L
Computer Sciences Corp.

SPIE Proceedings Series, v SPIE-4860, p 54-61
PUBLICATION DATE: 2003

PUBLISHER: Society of Photo-Optical Instrumentation Engineers, 1000 20th Street, P.O. Box 10, Bellingham, WA, 98225
COUNTRY OF PUBLICATION: USA
PUBLISHER URL: http://www.spie.org
PUBLISHER EMAIL: spie@spie.org

CONFERENCE:
High-Contrast Imaging for Exo-Planet Detection, Waikoloa, HI, 23-26 Aug. 2002
DOCUMENT TYPE: Conference Paper; Journal Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH
ISSN: 1017-2653
REPORT NO: SPIE-4860
FILE SEGMENT: Electronics & Communications Abstracts

ABSTRACT:
... would be semi-autonomous, with its own propulsion systems, internal power (solar cells), communications, and navigation capability. Spacecraft rendezvous and formation flying would be achieved with the aid of telescope imaging, RF or laser ranging, celestial navigation inputs, and formation control algorithms. (Author)

DESCRIPTORS: Telescopes; Space; Umbras; Planets; Detection; Spacecraft; Stars; Light (visible radiation); Space missions; Extrasolar planets; Systems; Celestial navigation ; Images; Polishing; Stellar systems; Navigation ; Solar system; Sky; Communication; Power transmission

2/3,KWIC/9 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

17204032 PASCAL No.: 05-0275169
Attitude control system of the Wilkinson Microwave Anisotropy Probe
MARKLEY F Landis; ANDREWS Stephen F; O'DONNELL James R JR; WARD David K
NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, United States
Journal: Journal of guidance, control, and dynamics, 2005, 28 (3) 385-397
Language: English

The Wilkinson Microwave Anisotropy Probe mission produces a map of the cosmic microwave background radiation over the entire celestial sphere by executing a fast spin and a slow precession of its spin axis about...

English Descriptors: Attitude control; Control synthesis; Solid dynamic; Cosmic ray; Spacecraft; Inertial navigation ; Measurement sensor; Wheel; Assembly; Orbit; Angular momentum; Anomaly; Reaction force

French Descriptors: Commande attitude; Synthese commande; Dynamique solide; Rayonnement cosmique; Spationef; Navigation inertie; Capteur mesure; Roue; Montage; Orbite; Moment cinetique; Anomalie; Force reaction
?

S NAVIGAT? AND (RADIAT? (6N) CELESTIAL?)
149335 NAVIGAT?
1610738 RADIAT?
27658 CELESTIAL?
369 RADIAT?(6N)CELESTIAL?
S3 14 NAVIGAT? AND (RADIAT? (6N) CELESTIAL?)
?

RD
S4 10 RD (unique items)
?

T S4/3,KWIC/1-10

4/3,KWIC/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

01851172 INSPEC Abstract Number: A76007082
Title: Navigation and guidance in interstellar space

Author(s): Hoag, D.G.; Wrigley, W.
Author Affiliation: Charles Stark Draper Lab. Inc., Cambridge, MA, USA
Journal: Acta Astronautica vol.2, no.5-6 p.513-33
Publication Date: May-June 1975 Country of Publication: UK
CODEN: AASTCF ISSN: 0094-5765
Language: English
Subfile: A

Title: Navigation and guidance in interstellar space
...Abstract: by abundant propulsion, velocity approaching the speed of light, and very long mission times. The navigation and guidance of such a starship will involve an autonomous system sensing received radiation from celestial bodies and utilizing inertial measurements of the motions of the starship. The sensing phenomena which...

... that the present state of the art in theory and implementation of the space-vehicle navigation and guidance is far closer to supporting an interstellar mission than that of many of...
Descriptors: navigation ;
...Identifiers: autonomous system sensing received radiation from celestial bodies...

... navigation ;

4/3,KWIC/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

0523586 NTIS Accession Number: AD-A016 397/2/XAB
AFCRL Infrared Sky Survey. Volume I. Catalog of Observations at 4, 11, and 20 Microns
(Environmental research papers)
Walker, R. G. ; Price, S. D.
Air Force Cambridge Research Labs Hanscom AFB Mass
Corp. Source Codes: 011800
Report No.: AFCRL-TR-75-0373; AFCRL-ERP-522
14 Jul 75 156p
Journal Announcement: GRAI7526
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A08/MF A01

Descriptors: *Intermediate infrared radiation ; Infrared scanning;

Celestial navigation ; Stellar map matching; Emission spectra; Brightness; Spatial distribution; Coordinates; Position(Location); Stars; Sky; Surveys; Tables...

4/3,KWIC/3 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS

0403630 NTIS Accession Number: N73-28490/3/XAB
Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
(Patent)
Farthing, W. H. ; Frisbie, H. F.
National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, Md.
Report No.: NASA-CASE-GSC-11444-1; PATENT-3 744 913
Filed patented 10 Jul 73 9p
Document Type: Patent
Journal Announcement: GRAI7322; STAR1119
Misc-Filed 24 Feb. 1972 Supersedes N72-21418 (10 - 12, p 1608).
Government-owned invention available for licensing. Copy of patent available from Commissioner of Patents, Washington, D.C. 20231 $.50.
NTIS Prices: Not available NTIS

Device for Determining Relative Angular Position Between a Spacecraft and a Radiation Emitting Celestial Body
... the relative angular position between a spin stabilized spacecraft, probe, or sounding rocket and a radiation emitting celestial body are derived with a detector including four electrodes for deriving indications of the centroid...
Descriptors: *Angular correlation; * Celestial bodies; *Spacecraft position indicators; Patents; Radiation detectors; Semiconductor devices; Signal processing; Space orientation; Spin stabilization

4/3,KWIC/4 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS

0380833 NTIS Accession Number: N73-19866/XAB
Ultraviolet Brightness of Celestial Targets for APOLLO 17
Fastie, W. G.
Johns Hopkins Univ., Baltimore, Md. Dept. of Physics.
Report No.: NASA-CR-128834
Dec 72 70p

Journal Announcement: GRAI7312; STAR1110
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC E03/MF A01

Descriptors: *Apollo 17 flight; *Space navigation ; *Stellar radiation ; *Ultraviolet radiation ; Celestial navigation ; Celestial reference systems; Spacecraft guidance

4/3,KWIC/5 (Item 4 from file: 6)
DIALOG(R)File 6:NTIS

0172943 NTIS Accession Number: AD-683 143/XAB
Applications of Infrared Techniques in Modern Aviation
Shen Kung-hsun
Foreign Technology Div Wright-Patterson AFB Ohio
Corp. Source Codes: 141600
Report No.: FTD-HT-23-473-68
11 Sep 68 12p
Document Type: Translation
Journal Announcement: USGRDR6909
Edited trans. of Hang K'ung Chih Shih (Mainland China), n7 p10-12 1960.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A02/MF A01

...Descriptors: Homing devices; Infrared equipment; Identification systems; Infrared detectors; Infrared image tubes; Infrared tracking; Heat homing; Celestial guidance; Infrared radiation ; Infrared telescopes; China

4/3,KWIC/6 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

0001546732 E.I. No: 19630034466
Title: Optical trackers in space
Author: Harmon, W.L.; Shroyer, G.J.; Gilkey, K.J.
Source: Instrument Society of America -- Journal v 9 n 11 Nov 1962 (

Instrument Society of America (ISA) Pittsburgh, PA United States), p 70-73
Publication Year: 1962
Language: English

Abstract: Discussion of optical trackers as accurate passive systems for spacecraft navigation systems; optical trackers can use natural radiation from various celestial bodies to give attitude and position data to space navigators .

4/3,KWIC/7 (Item 1 from file: 14)
DIALOG(R)File 14:Mechanical and Transport Engineer Abstract

0000130609 IP ACCESSION NO: 200212-12-010480
The celestial view from a relativistic starship

STIMETS, R W; SHELDON, E
Lowell, University, Lowell, Mass. [STIMETS, SHELDON]

British Interplanetary Society, Journal (Interstellar Studies), v 34, p 83-99, Mar. 1981
PUBLICATION DATE: 1981

CONFERENCE:
, United Kingdom

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Mechanical & Transportation Engineering Abstracts

ABSTRACT:
... considerations for manned interstellar flight are discussed and evaluated, with particular attention to durational and navigational aspects. The visual appearance of the forward cone, of semiangle 60 deg, in the astronauts...

DESCRIPTORS: Radiation; Doppler effect; Brightness; Singularities; Contraction; Wavelengths; Aberration; Mathematical analysis; Space vehicles; Background radiation ; Displacement; Microwaves; * Celestial mechanics; *Interstellar spacecraft; *Interstellar travel; *Manned space flight; *Relativistic effects; Black body radiation; Hertzsprung-russell ...

4/3,KWIC/8 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

02103188 ORDER NO: AADAA-I3183563
The use of variable celestial X-ray sources for spacecraft navigation
Author: Sheikh, Suneel Ismail
Degree: Ph.D.
Year: 2005
Corporate Source/Institution: University of Maryland, College Park (0117
)
Source: VOLUME 66/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 3817. 630 PAGES
ISBN: 0-542-24965-0

The use of variable celestial X-ray sources for spacecraft navigation

Accurate control and guidance of spacecraft require continuous high performance three-dimensional navigation solutions. Celestial sources that produce fixed radiation have demonstrated benefits for determining location near Earth and vehicle attitude. Many interplanetary navigation solutions have also relied on Earth-based radio telescope observations and substantial ground processing.

This dissertation investigates the use of variable celestial sources to compute an accurate navigation solution for autonomous spacecraft operation and presents new methodologies for determining time, attitude, position, and...

...ray emitting variable sources has been compiled to identify those that exhibit characteristics conducive to navigation . Many of these sources emit periodic signals that are stable and predictable, and all are...

...from Earth-orbiting X-ray astrophysics missions are also presented.

Results indicate that the pulsed radiation from variable celestial X-ray sources presents a significant opportunity for developing a new class of navigation system for autonomous spacecraft operation.

4/3,KWIC/9 (Item 1 from file: 57)
DIALOG(R)File 57:Electronics & Communications Abstracts

0000271820 IP ACCESSION NO: 200312-32-1352
UMBRAS - A matched occulter and telescope for imaging extrasolar planets

Schultz, Alfred B; Jordan, Ian J; Kochte, Mark; Fraquelli, Dorothy A;

Bruhweiler, Fred; Hollis, Jan M; Carpenter, Kenneth G; Lyon, Richard G;
DiSanti, Mike A; Miskey, Cherie L
Computer Sciences Corp.

SPIE Proceedings Series, v SPIE-4860, p 54-61
PUBLICATION DATE: 2003

PUBLISHER: Society of Photo-Optical Instrumentation Engineers, 1000 20th Street, P.O. Box 10, Bellingham, WA, 98225
COUNTRY OF PUBLICATION: USA
PUBLISHER URL: http://www.spie.org
PUBLISHER EMAIL: spie@spie.org

CONFERENCE:
High-Contrast Imaging for Exo-Planet Detection, Waikoloa, HI, 23-26 Aug. 2002
DOCUMENT TYPE: Conference Paper; Journal Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH
ISSN: 1017-2653
REPORT NO: SPIE-4860
FILE SEGMENT: Electronics & Communications Abstracts

ABSTRACT:
... would be semi-autonomous, with its own propulsion systems, internal power (solar cells), communications, and navigation capability. Spacecraft rendezvous and formation flying would be achieved with the aid of telescope imaging, RF or laser ranging, celestial navigation inputs, and formation control algorithms. (Author)

DESCRIPTORS: Telescopes; Space; Umbras; Planets; Detection; Spacecraft; Stars; Light (visible radiation); Space missions; Extrasolar planets; Systems; Celestial navigation ; Images; Polishing; Stellar systems; Navigation ; Solar system; Sky; Communication; Power transmission

4/3,KWIC/10 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

17204032 PASCAL No.: 05-0275169
Attitude control system of the Wilkinson Microwave Anisotropy Probe
MARKLEY F Landis; ANDREWS Stephen F; O'DONNELL James R JR; WARD David K
NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, United States
Journal: Journal of guidance, control, and dynamics, 2005, 28 (3)

385-397
Language: English

The Wilkinson Microwave Anisotropy Probe mission produces a map of the cosmic microwave background radiation over the entire celestial sphere by executing a fast spin and a slow precession of its spin axis about...

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French Descriptors: Commande attitude; Synthese commande; Dynamique solide; Rayonnement cosmique; Spationef; Navigation inertie; Capteur mesure; Roue; Montage; Orbite; Moment cinetique; Anomalie; Force reaction
?

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***Verdict Market Research (File 769)
***EMCare (File 45)
***Trademarkscan - South Korea (File 655)

RESUMED UPDATING
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?

B411
09dec06 10:32:29 User264717 Session D541.1
$0.00 0.391 DialUnits FileHomeBase
$0.00 Estimated cost FileHomeBase
$0.19 INTERNET
$0.19 Estimated cost this search
$0.19 Estimated total session cost 0.391 DialUnits
File 411:DIALINDEX(R)

DIALINDEX(R)
(c) 2006 Dialog

*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
?

SF ENG
>>> 32 is unauthorized
>>> 108 is unauthorized
>>>2 of the specified files are not available
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S NAVIGAT? AND PD<=031208 AND (PULS? (3W) CELESTIAL? (5W) RADIAT?)

Your SELECT statement is:
S NAVIGAT? AND PD<=031208 AND (PULS? (3W) CELESTIAL? (5W) RADIAT?)

Items File
----- ----
Processing

S NAVIGAT? AND PD<=031208 AND (PULS? (3W) CELESTIAL? (5W) RADIAT?)

Your SELECT statement is:
S NAVIGAT? AND PD<=031208 AND (PULS? (3W) CELESTIAL? (5W) RADIAT?)

Items File
----- ----

No files have one or more items; file list includes 38 files.
One or more terms were invalid in 25 files.

?

S NAVIGAT? AND PD<=031208 AND (PULS? (5W) CELESTIAL? (7W) RADIAT?)

Your SELECT statement is:
S NAVIGAT? AND PD<=031208 AND (PULS? (5W) CELESTIAL? (7W) RADIAT?)

Items File
----- ----

No files have one or more items; file list includes 38 files.
One or more terms were invalid in 25 files.

?

S NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) PULS? (5W) CELESTIAL?)

Your SELECT statement is:
S NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) PULS? (5W) CELESTIAL?)

Items File
----- ----

No files have one or more items; file list includes 38 files.
One or more terms were invalid in 25 files.

?

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S NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) CELESTIAL?)

Your SELECT statement is:
  S NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) CELESTIAL?)

       Items   File
       -----   ----
>>>File 14 processing for PD= : PD=031208
>>>File 14:    started at PD=APR.0000 stopped at PD=19830300
           1   14: Mechanical and Transport Engineer
                 Abstract_1966-2006/Nov

  1 file has one or more items; file list includes 38 files.
  One or more terms were invalid in 25 files.

?

B 14
     09dec06 10:48:11 User264717 Session D541.2
        $51.40   19.396 DialUnits File411
   $51.40  Estimated cost File411
    $4.26  INTERNET
   $55.66  Estimated cost this search
   $55.85  Estimated total session cost  19.787 DialUnits

File  14:Mechanical and Transport Engineer Abstract 1966-2006/Nov
     (c) 2006 CSA.

    Set  Items  Description
    ---  -----  -----------
?

S NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) CELESTIAL?)
>>>File 14 processing for PD= : PD=031208
>>>   started at PD=APR.0000 stopped at PD=19830300
        15677  NAVIGAT?
        46558  PD<=031208
        24231  RADIAT?
         1347  CELESTIAL?
           20  RADIAT?(6W)CELESTIAL?
    S1      1  NAVIGAT? AND PD<=031208 AND (RADIAT? (6W) CELESTIAL?)
?

T S1/3,KWIC/1
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